Appendix I.

[Vide answer to starred question No. 202 asked by Sri B. Narayanaswami Nayudu at the meeting of the Legislative Council held on 18th December 1947, page 272 supra.]

(*a*)—

The following are the transmission line extensions that have been planned for execution before 1953 :—

(1) (i) 110 KV lines from Machkund to Vizianagram, Vizagapatam, Rajahmundry and Bezwada.

(ii) 33/66 KV line from Bezwada to Guntur, Bapatla and Ongole.

(iii) 33 KV lines from Vizagapatam to Anakapalle, from Rajahmundry to Samalkot, Chettipet, Attili and Ellore and from Guntur to Narasaraopet.

The above lines will transmit the Madras share of Machkund power to the Vizagapatam, East Godavari, West Godavari, Kistna and Guntur districts.

(2) 33/66 KV lines from Nellore to Gudur and Nayudupet and 33 KV lines from Nellore to Kavali, from Nayudupet to Sulurpet, Venkatagiri, Kalahasti, Pakala and Arkonam.

These lines will carry power from the proposed Nellore Thermal Station to the various parts of Nellore district and a portion of Chittoor district. The 33 KV lines will also link up with the Mettur System at Pakala and Arkonam.

(3) The Ceded Districts grid will consist of the following lines :—

66 KV lines from Sokke at Mysore border to Thungabhadra, Bellary, Guntakal, Gooty, Tadpatri, Cuddapah and Kodur and from Gooty to Kurnool ; and

33 KV lines from Bellary to Adoni, Kurnool to Nandyal, Gooty to Anantapur and Hindupur to Dharmavaram.

The grid will be connected with the proposed Thungabhadra Hydro-Electric Station and the proposed thermal stations at Kurnool and Kamalapuram. Initially till the Thungabhadra Hydro-Electric Scheme comes into operation, it will distribute the bulk power purchased from Mysore and the power from the thermal stations,

(4) 33 KV lines from Madras to Tiruvallur, Sriperumbudur Ponneri and Chingleput, Conjeeveram to Arkonam, Chittoor to Madanapalle will serve the areas in Madras and part of Chingleput district.

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(5) 110 KV lines from Singarappet to Madras, Erode to Salem and Panruti and Mekadatu to Singarappet.

66 KV lines from Tiruvannamalai to Tindivanam, Villupuram to Tindivanam, Pondicherry and Panruti and Tanjore to Mayavaram.

33 KV lines from Mayavaram to Chidambaram.

These will serve the areas covered by South Arcot, North Arcot and part of the Tanjore districts.

(6) 110 KV lines from Pykara to Moyar and Erode and Pykara to Coimbatore.

66 KV lines from Mysore border to Udipi and Mangalore and from Negamam to Pollachi.

33 KV lines from Calicut to Shoranur, Ponnani and Palghat.

These lines will serve South Kanara, Coimbatore and Malabar districts.

(7) 110 KV lines from Coimbatore to Madura, Periyar to Sembatti and Trichinopoly and from Erode to Trichinopoly.

66 KV lines from Trichinopoly to Dalmiapuram, Madura to Tirumangalam, Rajapalayam and Tenkasi, Madura to Sivaganga and Papanasam to Talayuthu.

33 KV lines from Trichinopoly to Karaikudi, Karur to Dalmiapuram, Rajapalayam to Sivagiri, Talayuthu to Nazreth and Nazreth to Nanguneri.

The above lines will serve the areas in Madura, Trichinopoly, Ramnad and Tinnevelly districts.

Necessary distributors will be built to serve the towns and villages in the districts. The lines planned will augment the existing supply in the various places and will also enable extension to places where it is economically feasible. The exact names of towns and villages that will be served by the above plan cannot be predicted now to any degree of accuracy, as supply to any particular place will depend upon the load demand in that place.

(*b*)—

Gauging operations of the Lammasinghi stream are proposed to be continued for 5 years. The scheme will be taken up after the completion of the construction of the Machkund Scheme.

The Government have decided not to proceed with the Chettipet Scheme as the Machkund Hydro-Electric Scheme under construction would be adequate to meet all the demands in this area for years to come. Further, it is unlikely that plant for Chettipet Scheme will be ready earlier than Machkund Scheme and high unit cost would have to be paid for the small plant.

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(c)—

Buildings both residential and non-residential.—Contract for the construction of staff quarters and non-residential buildings has been awarded and the buildings are in various stages of construction.

Power-house buildings.—The construction of the power-house building has been given on contract. The preliminary works like clearing and levelling site are being done. Materials like metal, stone, etc., are being collected. A crusher has been erected by the contractor for crushing metal from stone. Pile-driving for foundations will have to be taken up as soon as the pile-driving set expected from Calcutta by the contractors is received and weather permits. Iron rods required for piles are awaited from suppliers but other arrangements have been fixed up in case of delay in receipt of the rods from suppliers.

Samples of water from different sites have been sent for test to the boiler-makers for deciding suitability and water-supply arrangements for boiler water, etc., will have to be made soon after test results are received.

Generating set.—The turbo-alternators and boilers are available in India with Electrical Commissioner with the Government of India from his reserve pool. The transformers required have been ordered in the United Kingdom and supply is expected in September 1948. Arrangements for procurement of switch-gear are being made. The boiler parts are already arriving at site. The generator parts will also be received as soon as railway siding for the power station is laid by the railway for which arrangements have been made.

33 *KV tie line between Madura Thermal Station and Pasumalai Hydro-Station.*—The survey of the line has been completed and arrangements made for procurement of line materials required. The line supports have already been received at site. Pending completion of this line, the construction power is proposed to be had from Pasumalai by the advance construction of the 11 KV line from Pasumalai to Sholavandan up to Samayanallur where the thermal station will be located. Construction of the 11 KV line has well advanced.

The booked expenditure up to end of September 1947 is Rs. 60,000 against the estimate amount of Rs, 88,00,000.

(d)—

A 4,000 K.W. set planned originally for erection at Nayudupet was diverted to Madura for inter-connexion with the Papanasam hydro-station, where the water conditions indicated the urgent need for a thermal station, as contemplated even in the original Papanasam Scheme. Further, it was considered undesirable to have a single set without any spare for an isolated station as at Nellore. In the place of the 4,000 K.W. set, two 2,500 K.W. transportable power stations have been purchased ; the turbo sets of these stations have already arrived in Madras, and the boilers are expected to be shipped in a few months.

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(*e*)—

Three 80,000 lb./hr. boilers ordered for one of the three 15,000 K.W. generating sets for extensions for Basin Bridge Power-station, Madras, are expected to be shipped by the end of December 1947. The erection of one of the boilers is expected to be completed by February 1949 and the other two boilers by May 1949.

(*f*)—

One 15,000 K.W. turbo-alternator ordered for the Basin Bridge Power-station, Madras, is expected to be shipped by February 1949. The erection of the set is expected to be completed by October 1949.

APPENDIX II.

[Vide answer to starred question No. 20[illegible] asked by Sri S. B. Adityan at the meeting of the Legislative Council held on the 18th December 1947, page 274 supra.]

(*a*)—

Ports administered by the Madras Government.

Name of district.	Name of port.	Name of district.	Name of port.
Vizagapatam	Baruva.	Tinnevelly	Tuticorin.
	Calingapatam.		Kulasekarapatnam.
	Bimlipatam.		
East Godavari ..	Cocanada.	Malabar	Ponnani.
Kistna ..	Masulipatam.		Calicut.
Guntur	Vadarevu.		Badagara.
South Arcot ..	Cuddalore.		Kallayi.
	Porto Novo.		Tellicherry.
Tanjore	Tirumalavasal.		Cannanore.
	Tranquebar.		Azhikkal.
	Negapatam.	South Kanara ..	Kasaragod.
	Topputurai.		Mangalore.
	Adirampatnam.		Mulki.
	Ammapatnam.		Malpe.
Ramnad	Tondi.		Hangarkotta.
	Devipatnam.		Coondapoor.
	Pamban.		Baindur.
	Danushkodi.		
	Kilakarai.		

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